

**Amendments to the Claims:**

The listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. **(currently amended)** A method for finding disconnection of a conductive wire formed on a vehicular plate glass, the method comprising the steps of:

(a) applying a voltage to the conductive wire; and

(b) imaging thermal radiation from a surface of the conductive wire by an infrared image sensor, while the step (a) is conducted, thereby producing a temperature distribution image.

2. **(original)** A method according to claim 1, wherein the temperature distribution image is subjected to a binarization by an image processor.

3. **(original)** A method according to claim 1, wherein the temperature distribution image is compared with a data representing a pattern of the conductive wire.

4. **(original)** A method according to claim 3, wherein the data is a first image data obtained by drafting the pattern of the conductive wire.

5.     **(original)**   A method according to claim 3, wherein the data is a second image data obtained, prior to the step (a), by imaging thermal radiation from the surface of the conductive wire by the infrared image sensor.
6.     **(original)**   A method according to claim 3, wherein the comparison is conducted by superimposing the temperature distribution image on the data.
7.     **(original)**   A method according to claim 3, wherein the comparison is conducted by an image data subtraction between the temperature distribution image and the data.
8.     **(currently amended)**   An apparatus for finding disconnection of a conductive wire formed on a vehicular plate glass, the apparatus comprising:  
  
        a power source for applying a voltage to the conductive wire; and  
  
        an infrared image sensor for imaging thermal radiation from a surface of the conductive wire, thereby producing a temperature distribution image.
9.     **(original)**   An apparatus according to claim 8, wherein the infrared image sensor is an infrared camera.
10.    **(new)**        A method according to claim 1, wherein the conductive wire serves as a heating wire for providing antifogging property or as an antenna wire.

11. (new) An apparatus according to claim 8, wherein the conductive wire serves as a heating wire for providing antifogging property or as an antenna wire.

12. (new) A method for finding disconnection of a plurality of conductive wires formed on a vehicular plate glass, the method comprising the steps of:

- (a) applying a voltage to the conductive wires; and
- (b) imaging thermal radiation from a surface of the conductive wires by an infrared image sensor, while the step (a) is conducted, thereby producing a temperature distribution image.

13. (new) A method according to claim 12, wherein the temperature distribution image is subjected to a binarization by an image processor.

14. (new) A method according to claim 12, wherein the temperature distribution image is compared with a data representing a pattern of the conductive wires.

15. (new) A method according to claim 14, wherein the data is a first image data obtained by drafting the pattern of the conductive wire.

16. (new) A method according to claim 14, wherein the data is a second image data obtained, prior to the step (a), by imaging thermal radiation from the surface of the conductive wires by the infrared image sensor.

17. (new) A method according to claim 14, wherein the comparison is conducted by superimposing the temperature distribution image on the data.

18. (new) A method according to claim 14, wherein the comparison is conducted by an image data subtraction between the temperature distribution image and the data.

19. (new) A method according to claim 12, wherein the conductive wires serve as heating wires for providing antifogging property or as antenna wires.

20. (new) An apparatus for finding disconnection of conductive wires formed on a vehicular plate glass the apparatus comprising:

a power source for applying a voltage to the conductive wires; and

an infrared image sensor for imaging thermal radiation from a surface of the conductive wires, thereby producing a temperature distribution image.

21. (new) An apparatus according to claim 20, wherein the infrared image sensor is an infrared camera.

**22. (new)** An apparatus according to claim 20, wherein the conductive wires serve as heating wires for providing antifogging property or as antenna wires.